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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/061,564	10/26/2001	Michael S. Foster	030048030US	2784
25096	7590	02/06/2006	EXAMINER	
PERKINS COIE LLP			FOX, JAMAL A	
PATENT-SEA			ART UNIT	
P.O. BOX 1247			PAPER NUMBER	
SEATTLE, WA 98111-1247			2664	

DATE MAILED: 02/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/061,564

Applicant(s)

FOSTER ET AL.

Examiner

Jamal A. Fox

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(i).

## Status

- 1) ☒ Responsive to communication(s) filed on 18 November 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-46 is/are pending in the application.
- 4a) Of the above claim(s) 5, 18, 30 and 43 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-17, 19-29, 31-42 and 44-46 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 May 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a)  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d)
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 9/12/05 & 11/18/05
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-4, 6-11, 13-17, 19-24, 26-29, 31-36, 38-42 and 44-46 are rejected under 35 U.S.C. 102(e) as being anticipated by Dearth et al. (U.S. Patent No. 6,744,765).

Referring to claim 1 Dearth et al. discloses a method in a switch for multicasting (multicast, col. 4 line 49 – col. 5 line 4) data whose delivery is not guaranteed, the method comprising:

receiving data to be multicasted (multicast, col. 4 line 49 – col. 5 line 4);

storing the received data in a buffer (buffer, col. 5 lines 20-30);

identifying destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports through which the received data is to be transmitted; and

repeating determining the destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports that are currently available and through which the data has not already been transmitted and transmitting the data through the determined destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports until the data has been transmitted through all the destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports or until the data has timed out at the switch, wherein the switch is InfiniBand (Infiniband, col. 5 lines 60-65) compatible.

Referring to claim 2, Dearth et al. discloses the method of claim 1 wherein each port (port, col. 5 lines 1-4) of the switch has its own buffer (buffer, col. 5 lines 20-30).

Referring to claim 3, Dearth et al. discloses the method of claim 1 wherein the data indicates that the data is to be multicasted (multicast, col. 4 line 49 – col. 5 line 4) without acknowledgement.

Referring to claim 4, Dearth et al. discloses the method of claim 1 wherein the data indicates a Fibre Channel (Fiber Channel, col. 1 lines 25-30) class 3 data.

Referring to claim 6, Dearth et al. discloses the method of claim 1 wherein the switch is Fibre Channel (Fiber Channel, col. 1 lines 25-30) compatible.

Referring to claim 7, Dearth et al. discloses the method of claim 1 wherein the switch is an interconnect (interconnected, col. 4 lines 5-10) fabric module.

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Referring to claim 8, Dearth et al. discloses the method of claim 1, wherein the identifying of destination ports includes using a virtual address and label table (table, col. 2 lines 20-26) that maps virtual addresses to destination ports.

Referring to claim 9, Dearth et al. discloses the method of claim 1 including when it is determined that a destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) port is not available, determining whether an equivalent port is available.

Referring to claim 10, Dearth et al. discloses a routing device that receives a communication to be multicasted (multicast, col. 4 line 49 – col. 5 line 4) to destinations, that stores the communication in a buffer (buffer, col. 5 lines 20-30), that identifies destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports through which the received communication is to be transmitted to the destinations, and that transmits the communication to the identified destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports as the destination ports become available until the communication has been transmitted through all the destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports, wherein the routing device is Infiniband (Infiniband, col. 5 lines 60-65) compatible.

Referring to claim 11, Dearth et al. discloses the routing device of claim 10 wherein the transmitting of the communication to the identified destination ports as the destination ports become available continues until a criterion (ACK, col. 6 line 20 – col. 7 line 61) is satisfied.

Referring to claim 13, Dearth et al. discloses the routing device of claim 11 wherein the criterion is the buffer (buffer, col. 5 lines 20-30) is needed to store another communication.

Referring to claim 14, Dearth et al. discloses the routing device of claim 10 wherein the communication is received via a port (port, col. 5 lines 1-4) and each port (port, col. 5 lines 1-4) of the routing device has its own buffer (buffer, col. 5 lines 20-30).

Referring to claim 15, Dearth et al. discloses the routing device of claim 10 wherein the communication indicates that the communication is to be multicasted (multicast, col. 4 line 49 – col. 5 line 4) without acknowledgement (NAK, col. 8 line 55 – col. 9 line 14).

Referring to claim 16, Dearth et al. discloses the routing device of claim 10 wherein the communication indicates a Fibre Channel (Fiber Channel, col. 1 lines 25-30) class 3 communication.

Referring to claim 17, Dearth et al. discloses the routing device of claim 10 wherein the routing device is Fibre Channel (Fiber Channel, col. 1 lines 25-30) compatible.

Referring to claim 19, Dearth et al. discloses the routing device of claim 10 wherein the routing device is a switch (switch, col. 4 lines 5-10 and col. 5 lines 60-65).

Referring to claim 20, Dearth et al. discloses the routing device of claim 10 wherein the routing device is an interconnect (interconnected, col. 4 lines 5-10) fabric module.

Referring to claim 21, Dearth et al. discloses the routing device of claim 10 wherein the communication includes a virtual address and the routing device includes a label table (table, col. 2 lines 20-26) that maps the virtual address to destination ports.

Referring to claim 22, Dearth et al. discloses the routing device of claim 10 that identifies an equivalent destination port (destination, col. 2 lines 8-26 and col. 5 lines 45-50) when the identified destination port (destination, col. 2 lines 8-26 and col. 5 lines 45-50) is not available.

Referring to claim 23, Dearth et al. discloses a method in a routing device for multicasting (multicast, col. 4 line 49 – col. 5 line 4) a communication, the method comprising:

receiving (receiving, col. 3 lines 30-35, col. 6 lines 50-55 and col. 6 lines 60-65) the communication; and

transmitting the received communications through destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports of the routing device as they become available until a criteria indicates to stop transmitting the communications, further wherein the routing device is InfiniBand (Infiniband, col. 5 lines 60-65) compatible.

Referring to claim 24, Dearth et al. discloses the method of claim 23 wherein the transmitting includes determining the destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports that are currently available and through which the communication has not already been transmitted and transmitting the communication through the determined destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports.

Referring to claim 26, Dearth et al. discloses the method of claim 23 wherein the communication is not guaranteed to be delivered to all destinations (destination, col. 2 lines 8-26 and col. 5 lines 45-50).

Referring to claim 27, Dearth et al. discloses the method of claim 23 including storing the communication in a buffer (buffer, col. 5 lines 20-30).

Referring to claim 28, Dearth et al. discloses the method of claim 23 wherein the communication indicates that the communication is to be multicasted (multicast, col. 4 line 49 – col. 5 line 4) without acknowledgement (NAK, col. 8 line 55 – col. 9 line 14).

Referring to claim 29, Dearth et al. discloses the method of claim 23 wherein the communication indicates a Fibre Channel (Fiber Channel, col. 1 lines 25-30) class 3 communication.

Referring to claim 31, Dearth et al. discloses the method of claim 23 wherein the routing device is Fibre Channel (Fiber Channel, col. 1 lines 25-30) compatible.

Referring to claim 32, Dearth et al. discloses the method of claim 23 wherein the routing device is an interconnect (interconnected, col. 4 lines 5-10) fabric module.

Referring to claim 33, Dearth et al. discloses the method of claim 23 including identifying destination ports using a virtual address and a label table (table, col. 2 lines 20-26) that maps virtual addresses to destination ports.

Referring to claim 34, Dearth et al. discloses the method of claim 23 including determining whether a destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) port is available and when it is determined that a destination (destination, col. 2 lines 8-



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26 and col. 5 lines 45-50) port is not available, determining whether an equivalent port is available.

Referring to claim 35, Dearth et al. discloses a routing device comprising:

means for receiving (receiving, col. 3 lines 30-35, col. 6 lines 50-55 and col. 6 lines 60-65) a communication to be multicasted (multicast, col. 4 line 49 – col. 5 line 4) to destinations;

means for storing the communication in a buffer (buffer, col. 5 lines 20-30);

means for identifying destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports through which the received communication is to be transmitted to the destinations (destination, col. 2 lines 8-26 and col. 5 lines 45-50); and

means for transmitting the communication to the identified destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports as the destination ports become available until a criterion (ACK, col. 6 line 20 – col. 7 line 61) has been satisfied, wherein the routing device is InfiniBand (Infiniband, col. 5 lines 60-65) compatible.

Referring to claim 36, Dearth et al. discloses the routing device of claim 35 wherein the criterion is transmitting (transmitting, col. 5 lines 10-15 and col. 9 lines 30-35) of the communications to all of the identified ports.

Referring to claim 38, Dearth et al. discloses the routing device of claim 35 wherein the criterion is the buffer (buffer, col. 5 lines 20-30) is needed to store another communication.

Referring to claim 39, Dearth et al. discloses the routing device of claim 35 wherein the communication is received via a port (port, col. 5 lines 1-4) and each port (port, col. 5 lines 1-4) of the routing device has its own buffer (buffer, col. 5 lines 20-30).

Referring to claim 40, Dearth et al. discloses the routing device of claim 35 wherein the communication indicates that the communication is to be multicasted (multicast, col. 4 line 49 – col. 5 line 4) without acknowledgement (NAK, col. 8 line 55 – col. 9 line 14).

Referring to claim 41, Dearth et al. discloses the routing device of claim 35 wherein the communication indicates a Fibre Channel (Fiber Channel, col. 1 lines 25-30) class 3 communication.

Referring to claim 42, Dearth et al. discloses the routing device of claim 35 wherein the routing device is Fibre Channel (Fiber Channel, col. 1 lines 25-30) compatible.

Referring to claim 44, Dearth et al. discloses the routing device of claim 35 wherein the routing device is an interconnect (interconnected, col. 4 lines 5-10) fabric module.

Referring to claim 45, Dearth et al. discloses the routing device of claim 35 wherein the communication includes a virtual address and the routing device includes means (table col. 2 lines 20-26) for mapping the virtual address to destination ports.

Referring to claim 46, Dearth et al. discloses the routing device of claim 35 includes means for identifying an equivalent destination (destination, col. 2 lines 8-26

and col. 5 lines 45-50) port when the identified destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) port is not available.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-3, 7-15, 19-28, 32-40 and 44-46 rejected under 35 U.S.C. 102(e) as being anticipated by Carvey (U.S. Patent Application Publication 2002/0049901).

Referring to claim 1 Carvey discloses a method in a switch (switch, see Figures 3, 10, 11A, 12 and respective portions of the spec.) for multicasting (multicast, [0079]) data whose delivery is not guaranteed, the method comprising:

receiving data to be multicasted (multicast, [0079]);

storing the received data in a buffer (buffer, [0015] and [0016]);

identifying destination (destination, [0015], [0016] and [0017]) ports through which the received data is to be transmitted; and

repeating determining the destination (destination, [0015], [0016] and [0017]) ports that are currently available and through which the data has not already been transmitted and transmitting the data through the determined destination (destination, [0015], [0016] and [0017]) ports until the data has been transmitted through all the

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destination (destination, [0015], [0016] and [0017]) ports or until the data has timed out at the switch, wherein the switch is InfiniBand (Infiniband, [0017], [0057], [0059], [0060], [0064] and [0108]) compatible.

Referring to claim 2, Carvey discloses the method of claim 1 wherein each port (port, [0110]) of the switch has its own buffer (buffer, [0015] and [0016]).

Referring to claim 3, Carvey discloses the method of claim 1 wherein the data indicates that the data is to be multicasted (multicast, [0079]) without acknowledgement.

Referring to claim 7, Carvey discloses the method of claim 1 wherein the switch is an interconnect (interconnects, [0056]; interconnecting, [0057], [0078], [0080]; interconnected, [0057], [0059]) fabric module.

Referring to claim 8, Carvey discloses the method of claim 1, wherein the identifying of destination ports includes using a virtual address and label table (table, [0032], [0058] and [0079]) that maps virtual addresses to destination ports.

Referring to claim 9, Carvey discloses the method of claim 1 including when it is determined that a destination (destination, [0015], [0016] and [0017]) port is not available, determining whether an equivalent port is available.

Referring to claim 10, Carvey discloses a routing device that receives a communication to be multicasted (multicast, [0079]) to destinations, that stores the communication in a buffer (buffer, [0015] and [0016]), that identifies destination (destination, [0015], [0016] and [0017]) ports through which the received communication is to be transmitted to the destinations, and that transmits the communication to the identified destination (destination, [0015], [0016] and [0017]) ports as the destination

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ports become available until the communication has been transmitted through all the destination (destination, [0015], [0016] and [0017]) ports, wherein the routing device is Infiniband (Infiniband, [0017], [0057], [0059], [0060], [0064] and [0108]) compatible.

Referring to claim 11, Carvey discloses the routing device of claim 10 wherein the transmitting (transmitting, [0004]) of the communication to the identified destination ports as the destination ports become available continues until a criterion (replies, [0011]) is satisfied.

Referring to claim 12, Carvey discloses the routing device of claim 11 wherein the criterion is a time (time, [0245]) out.

Referring to claim 13, Carvey discloses the routing device of claim 11 wherein the criterion is the buffer (buffer, [0015] and [0016]) is needed to store another communication.

Referring to claim 14, Carvey discloses the routing device of claim 10 wherein the communication is received via a port (port, [0016]) and each port (port, [0016]) of the routing device has its own buffer (buffer, [0015] and [0016]).

Referring to claim 15, Carvey discloses the routing device of claim 10 wherein the communication indicates that the communication is to be multicasted (multicast, [0079]) without acknowledgement.

Referring to claim 19, Carvey discloses the routing device of claim 10 wherein the routing device is a switch (switch, see Figures 3, 10, 11A, 12 and respective portions of the spec.).

Referring to claim 20, Carvey discloses the routing device of claim 10 wherein the routing device is an interconnect (interconnects, [0056]; interconnecting, [0057], [0078], [0080]; interconnected, [0057], [0059]) fabric module.

Referring to claim 21, Carvey discloses the routing device of claim 10 wherein the communication includes a virtual address and the routing device includes a label table (table, [0032], [0058] and [0079]) that maps the virtual address to destination ports.

Referring to claim 22, Carvey discloses the routing device of claim 10 that identifies an equivalent destination port (destination, [0015], [0016] and [0017]) when the identified destination port (destination, [0015], [0016] and [0017]) is not available.

Referring to claim 23, Carvey discloses a method in a routing device for multicasting (multicast, [0079]) a communication, the method comprising:

receiving (receiving, [0086] and [0096]) the communication; and  
transmitting (transmitting, [0004]) the received communications through destination (destination, col. 2 lines 8-26 and col. 5 lines 45-50) ports of the routing device as they become available until a criteria indicates to stop transmitting the communications, further wherein the routing device is InfiniBand (Infiniband, [0017], [0057], [0059], [0060], [0064] and [0108]) compatible.

Referring to claim 24, Carvey discloses the method of claim 23 wherein the transmitting includes determining the destination (destination, [0015], [0016] and [0017]) ports that are currently available and through which the communication has not already

been transmitted and transmitting the communication through the determined destination (destination, [0015], [0016] and [0017]) ports.

Referring to claim 25, Carvey discloses the method of claim 23 wherein the criteria is a time (time, [0245]) out.

Referring to claim 26, Carvey discloses the method of claim 23 wherein the communication is not guaranteed to be delivered to all destinations (destination, [0015], [0016] and [0017]).

Referring to claim 27, Carvey discloses the method of claim 23 including storing the communication in a buffer (buffer, [0015] and [0016]).

Referring to claim 28, Carvey discloses the method of claim 23 wherein the communication indicates that the communication is to be multicasted (multicast, [0079]) without acknowledgement.

Referring to claim 32, Carvey discloses the method of claim 23 wherein the routing device is an interconnect (interconnects, [0056]; interconnecting, [0057], [0078], [0080]; interconnected, [0057], [0059]) fabric module.

Referring to claim 33, Carvey discloses the method of claim 23 including identifying destination ports using a virtual address and a label table (table, [0032], [0058] and [0079]) that maps virtual addresses to destination ports.

Referring to claim 34, Carvey discloses the method of claim 23 including determining whether a destination (destination, [0015], [0016] and [0017]) port is available and when it is determined that a destination (destination, [0015], [0016] and [0017]) port is not available, determining whether an equivalent port is available.

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Referring to claim 35, Carvey discloses a routing device comprising:

means for receiving (receiving, [0086] and [0096]) a communication to be multicasted (multicast, [0079]) to destinations;

means for storing the communication in a buffer (buffer, col. 5 lines 20-30);

means for identifying destination (destination, [0015], [0016] and [0017]) ports through which the received communication is to be transmitted to the destinations (destination, [0015], [0016] and [0017]); and

means for transmitting (transmitting, [0004]) the communication to the identified destination (destination, [0015], [0016] and [0017]) ports as the destination ports become available until a criterion (replies, [0011]) has been satisfied, wherein the routing device is InfiniBand (Infiniband, [0017], [0057], [0059], [0060], [0064] and [0108]) compatible.

Referring to claim 36, Carvey discloses the routing device of claim 35 wherein the criterion is transmitting (transmitting, col. 5 lines 10-15 and col. 9 lines 30-35) of the communications to all of the identified ports.

Referring to claim 37, Carvey discloses the routing device of claim 35 wherein the criterion is a time (time, [0245]) out.

Referring to claim 38, Carvey discloses the routing device of claim 35 wherein the criterion is the buffer (buffer, [0015] and [0016]) is needed to store another communication.



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Referring to claim 39, Carvey discloses the routing device of claim 35 wherein the communication is received via a port (port, [0016]) and each port (port, [0016]) of the routing device has its own buffer (buffer, [0015] and [0016]).

Referring to claim 40, Carvey discloses the routing device of claim 35 wherein the communication indicates that the communication is to be multicasted (multicast, [0079]) without acknowledgement.

Referring to claim 44, Carvey discloses the routing device of claim 35 wherein the routing device is an interconnect (interconnects, [0056]; interconnecting, [0057], [0078], [0080]; interconnected, [0057], [0059]) fabric module.

Referring to claim 45, Carvey discloses the routing device of claim 35 wherein the communication includes a virtual address and the routing device includes means (table, [0032], [0058] and [0079]) for mapping the virtual address to destination ports.

Referring to claim 46, Carvey discloses the routing device of claim 35 includes means for identifying an equivalent destination (destination, [0015], [0016] and [0017]) port when the identified destination (destination, [0015], [0016] and [0017]) port is not available.

### ***Response to Arguments***

5. Applicant's arguments with respect to claims 1-46 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

6. **Any response to this action should be mailed to:**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450


**or faxed to:**

(571) 273-8300, (for formal communications intended for entry)

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jamal A. Fox whose telephone number is (571) 272-3143. The examiner can normally be reached on Monday-Friday 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to 2600 Customer Service whose telephone number is (571) 272-2600.

  
Jamal A. Fox

  
WELLINGTON CHIN  
SUPERVISORY PATENT EXAMINER